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(12) Patent Application:

(11) CA 2006304

- (54) STABILIZED SUCRALOSE COMPLEX
- (54) COMPLEXE DE SUCRALOSE STABILISE

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### ABSTRACT:

### ABSTRACT OF THE DISCLOSURE

The chlorosucrose sweetener known as sucralose is prepared in a thermally stable composition by co-crystallization with a cyclodextrin. The resulting crystalline product may be comminuted to form particles of desired size for use as a sweetener component in place of or in addition to known sweeteners such as sucrose, saccharin and the like, in a variety of foods, comestibles, and oral medications. The preparation of the stabilized sucralose compositions of the present invention constitutes a molecular encapsulation of the sucralose within the cyclodextrin thereby protecting the sucralose from discoloration caused by heat. Numerous applications for this stabilized complex are suggested and disclosed.

CLAIMS: Show all claims

\*\*\* Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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## Canadian Patents Database

Patent Document Number 2006304:

STABILIZED SUCRALOSE COMPLEX

COMPLEXE DE SUCRALOSE STABILISE

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# **CLAIMS:**

### WHAT IS CLAIMED IS:

- 1. A thermally stabilized sucralose composition comprising a co-crystallized complex of sucralose and at least about 5% by weight of a cyclodextrin.
- 2. The composition of Claim 1 wherein said cyclodextrin is selected from the group consisting of alpha.-cyclodextrin, .beta.cyclodextrin, .lambda.-cyclodextrin and mixtures thereof.
- 3. The composition of Claim 1 wherein part or all of said sucralose is entrapped within said cyclodextrin.
- 4. The composition of Claim 1 wherein said complex contains at least about 15% by weight of said cyclodextrin.
- 5. The composition of Claim 1 prepared in particulate form.
- 6. The composition of Claim 5 wherein said complex possesses a particle size on the order of about 10 microns.
- 7. A method for the preparation of a thermally stabilized sucralose composition, comprising:
- a) dissolving a quantity of sucralose and a stoichiometrically sufficient amount of a cyclodextrin in a suitable non-aqueous solvent;
- b) maintaining the solution formed in step a) for a period of time sufficient to permit full co-crystallization of said sucralose and said cyclodextrin to take place;
- c) recovering the crystalline reaction product from step b) and drying the same;

and

- d) subjecting the material from step d) to comminutopm to form particles therefrom.
- 8. The method of Claim 7 wherein said cyclodextrin is selected from the group consisting of .alpha.-cyclodextrin, .beta.-cyclodextrin, .lambda.-cyclodextrin and mixtures thereof.

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- 9. The method of Claim 7 wherein the resulting particles contain at least about 5% by weight of cyclodextrin.
- 10. The method of Claim 7 wherein the resulting particles contain at least about 15% by weight of cyclodextrin.
- 11. The method of Claim 7 wherein said non-aqueous solvent is selected from the group consisting of methanol and ethyl acetate.
- 12. The method of Claim 7 wherein said non-aqueous solvent comprises methanol and ethyl acetate.
- 13. The method of Claim 7 wherein said solution is maintained for up to about eight hours.
- 14. The method of Claim 7 wherein said solution contains ethyl acetate and is maintained at a reduced temperature for a period on the order of about eight hours.
- 15. The method of Claim 7 wherein the particles have an average size of about 10 microns.
- 16. A solid food containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.
- 17. An aqueous food containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.
- 18. A liquid beverage containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.
- 19. A chewing gum composition containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.
- 20. A mouth wash containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.

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- 21. A cough drop containing a sweetener, the sweetener comprising the stabilized composition of Claim 1.
- 22. A confectionary preparation containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.

- 23. The confectionary preparation of Claim 22 selected from the group consisting hard candy, soft candy, chocolate and cookies.
- 24. A breath mint containing a sweetener, the sweetener comprising the thermally stabilized composition of Claim 1.
- 25. An orally ingestible pharmaceutical preparation containing a sweetener, the sweetener comprising the stabilized composition of Claim 1.

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